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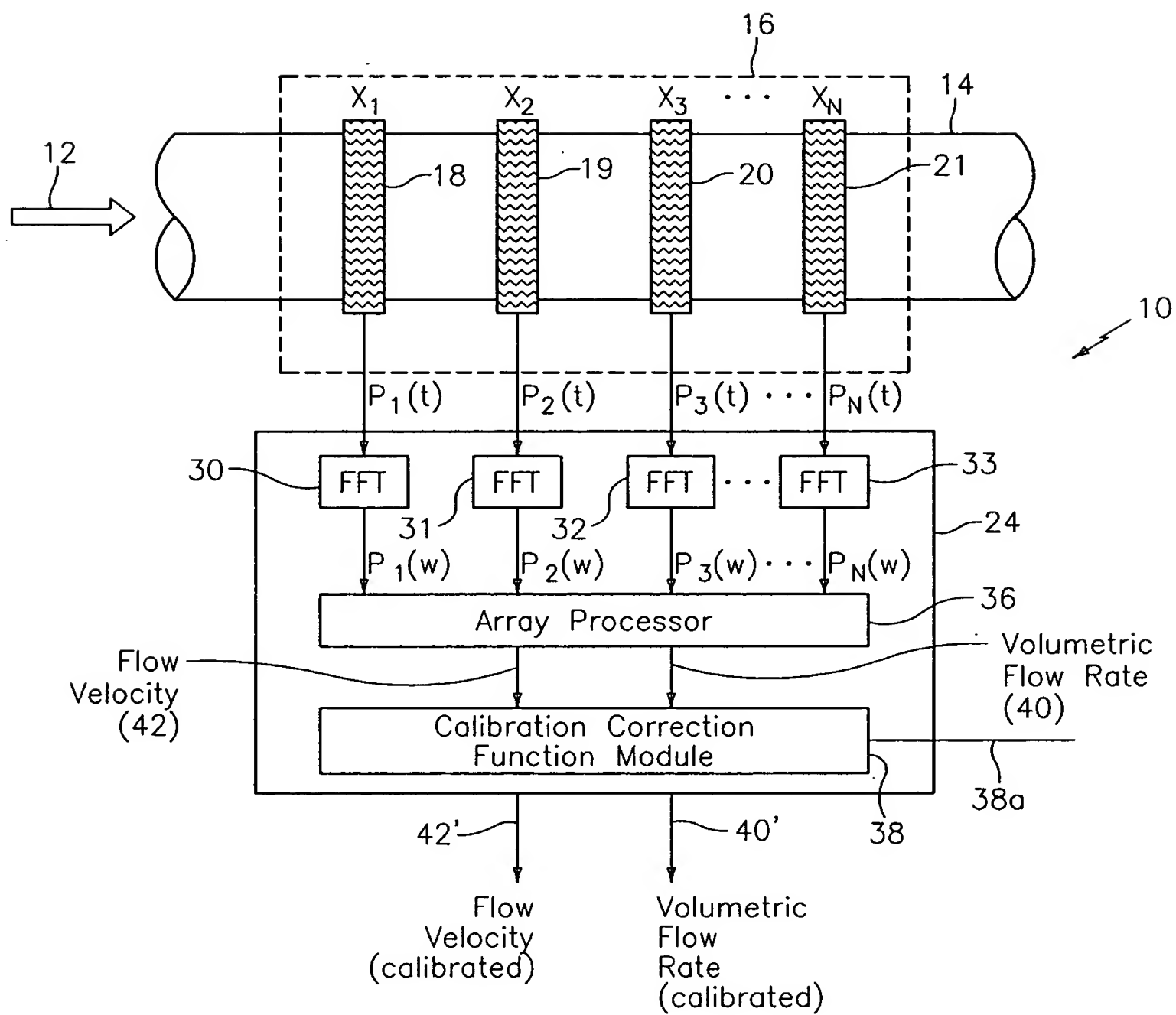


FIG. 1

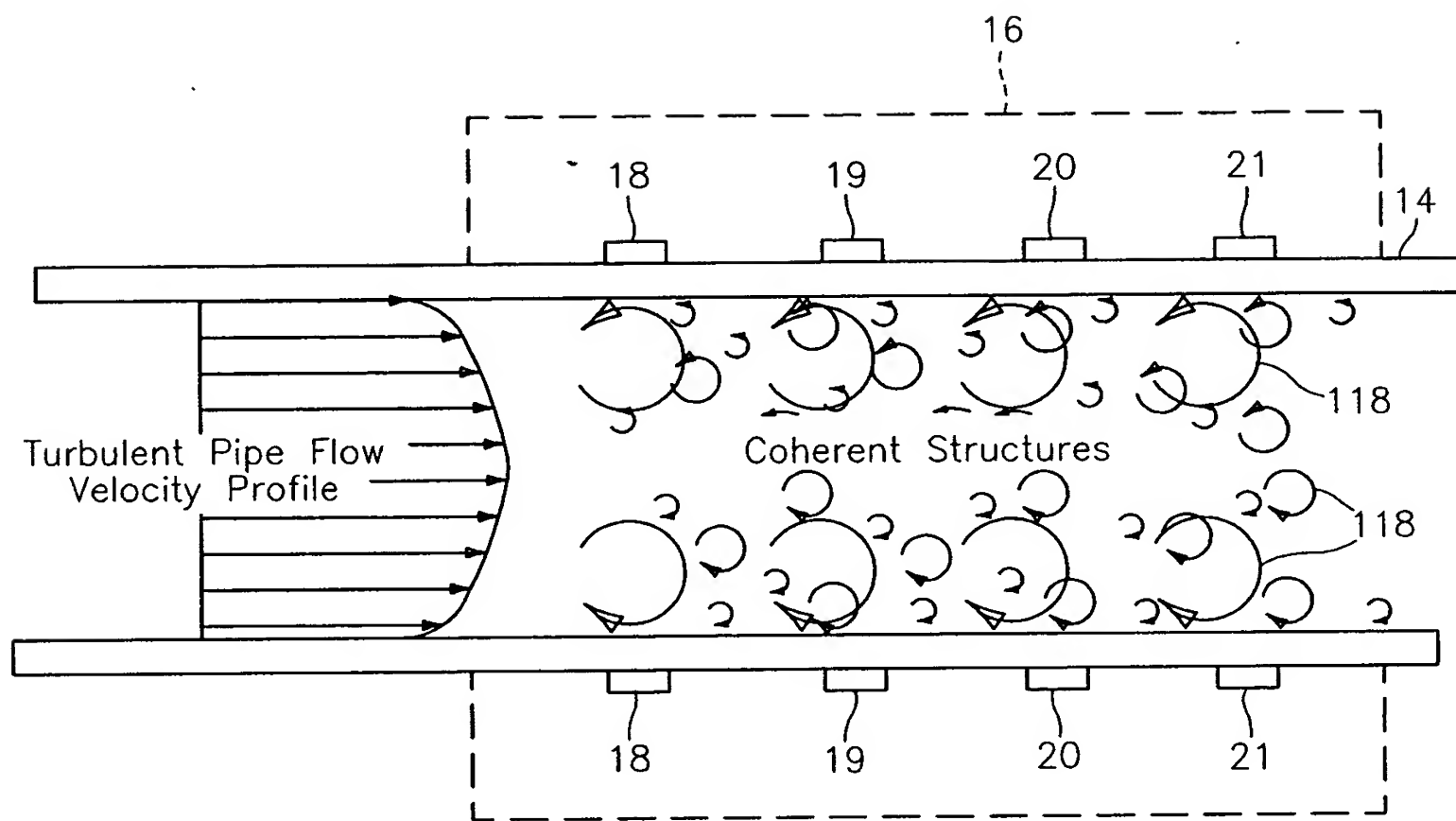


FIG. 2

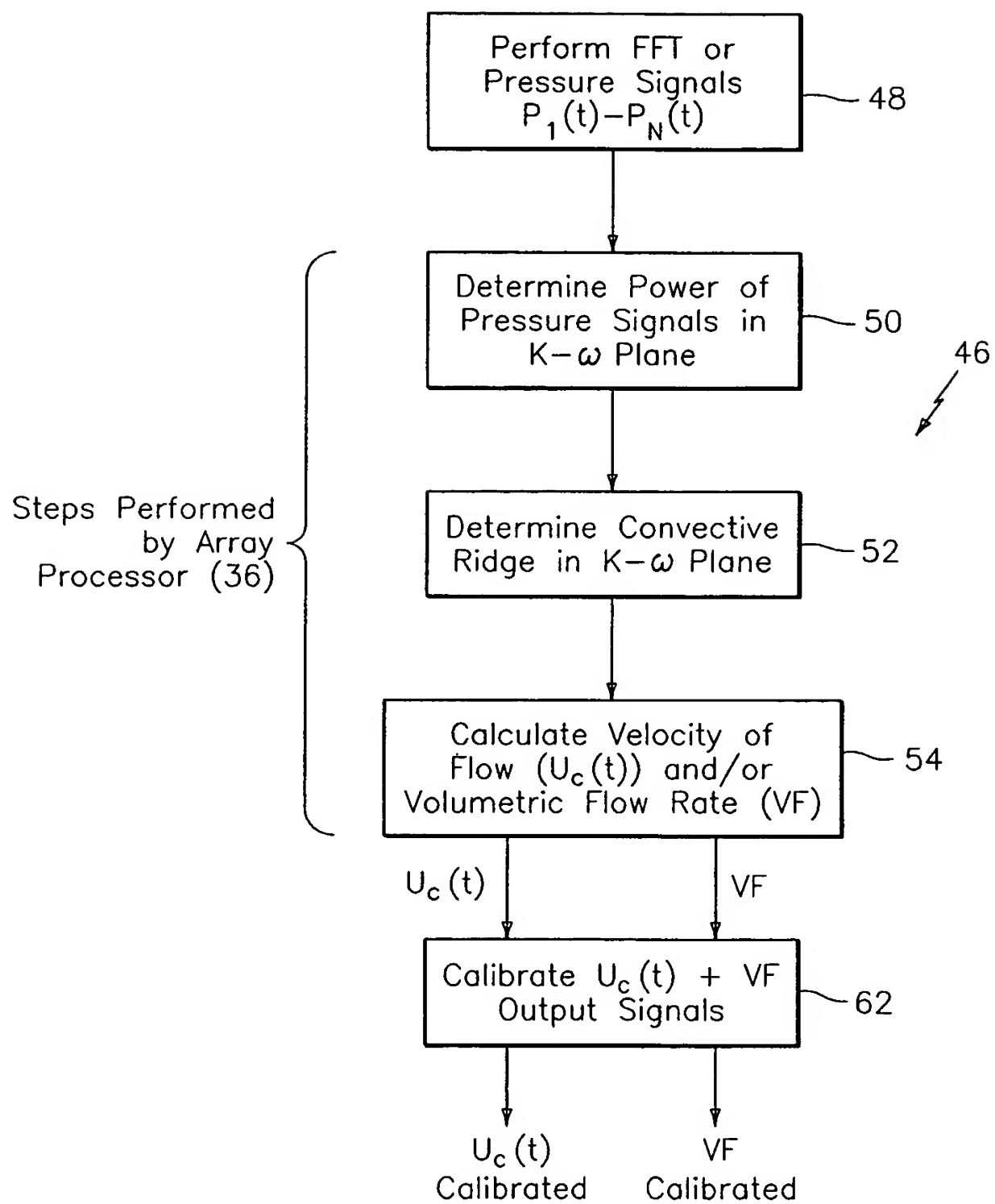
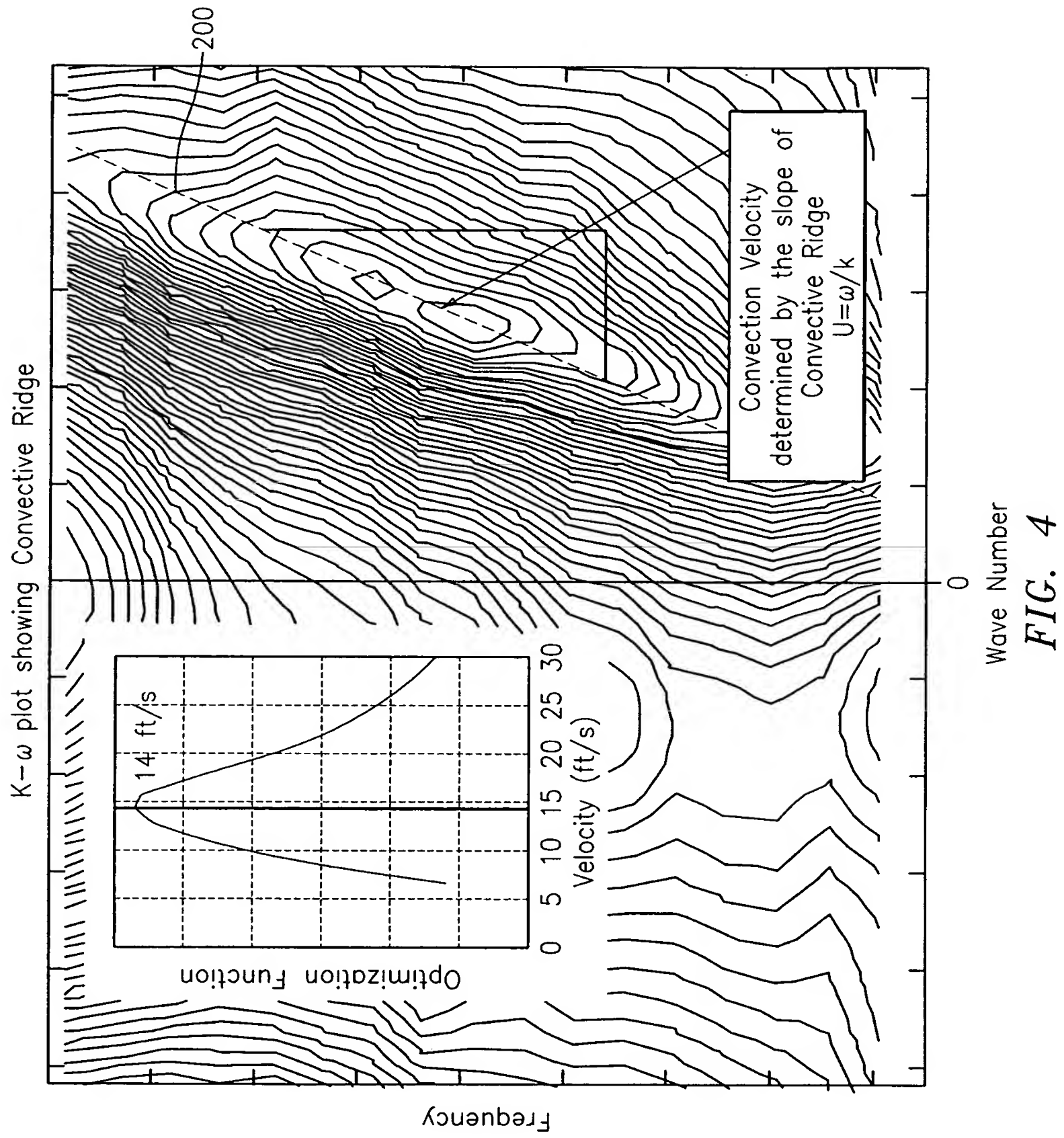


FIG. 3



8" Sensor Pipe Wall Thickness Sensitivity
Wavelength and 1st order Differencing

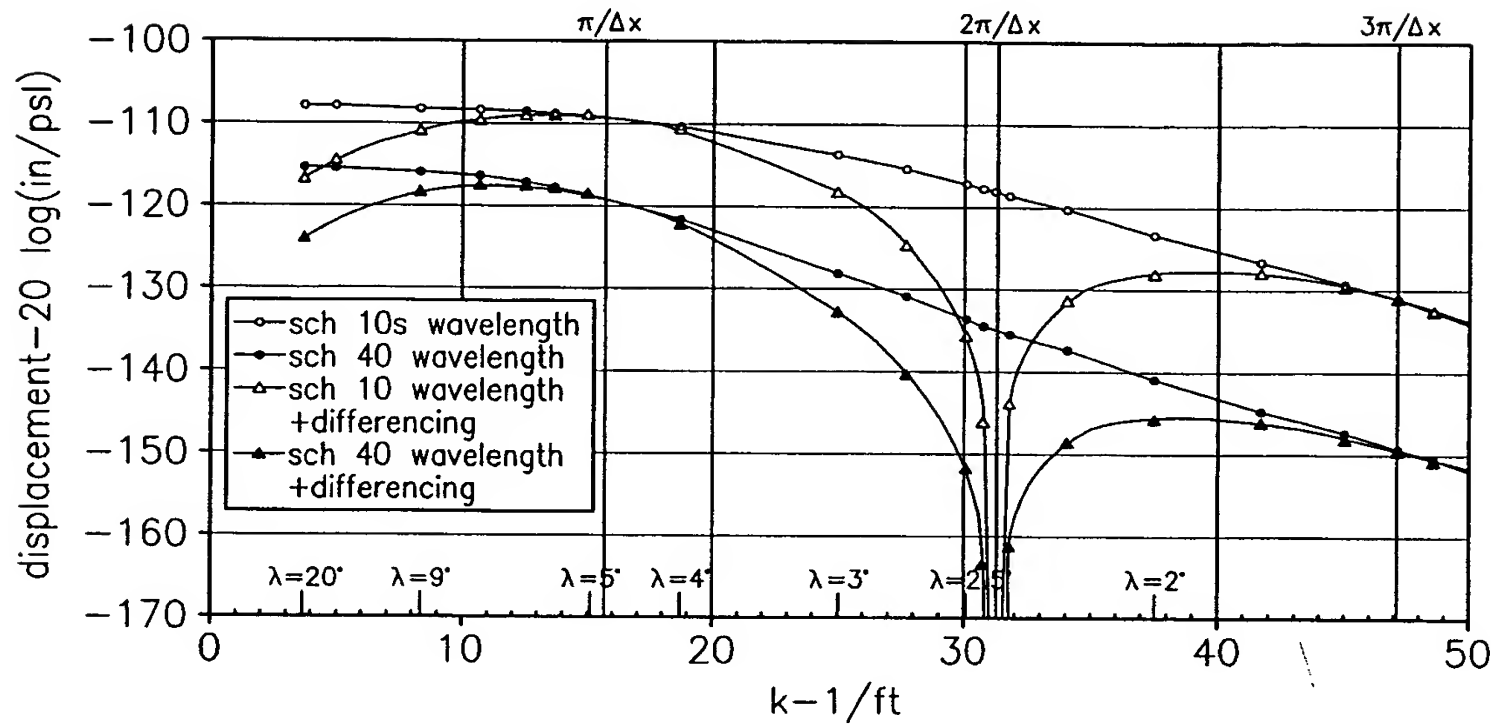


FIG. 5

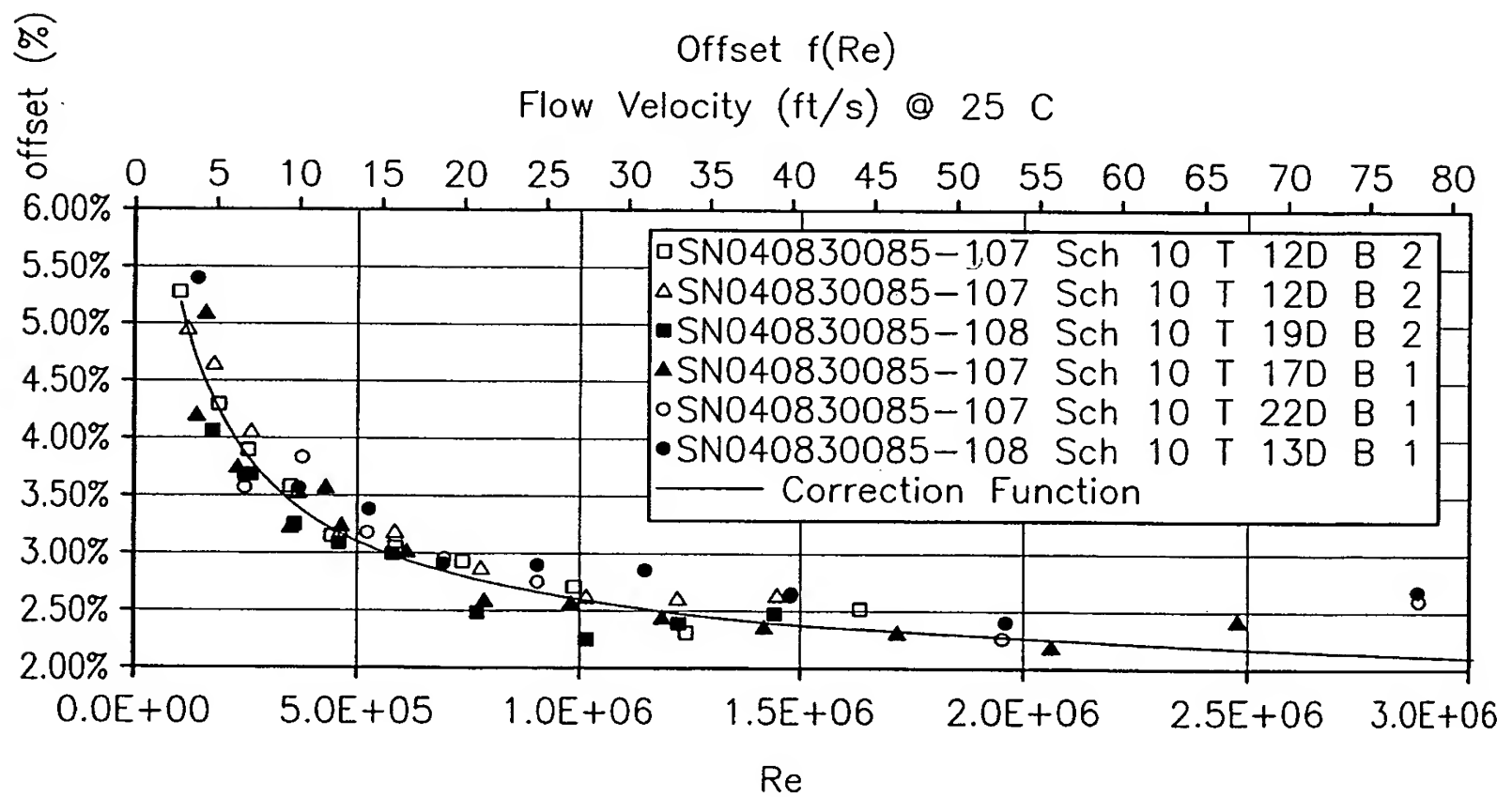


FIG. 6

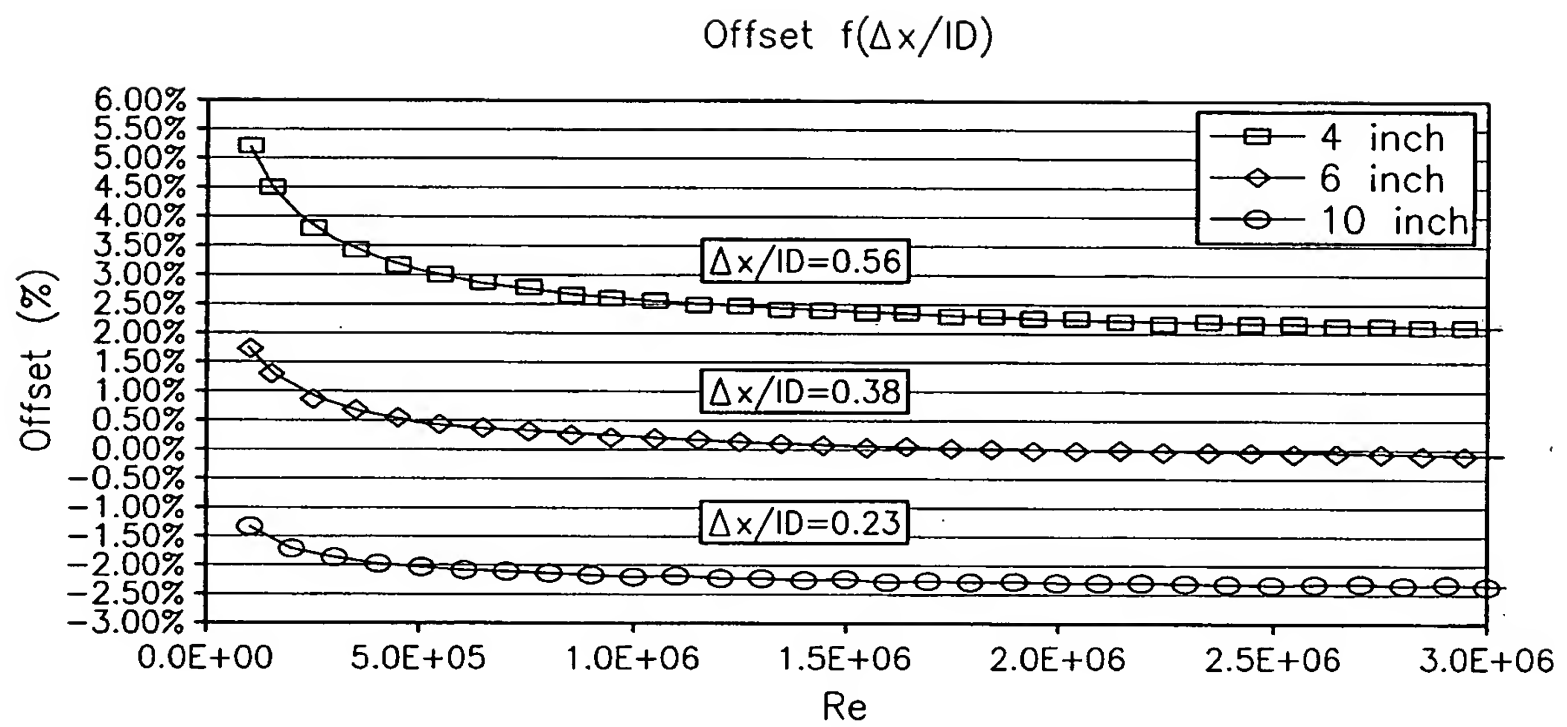
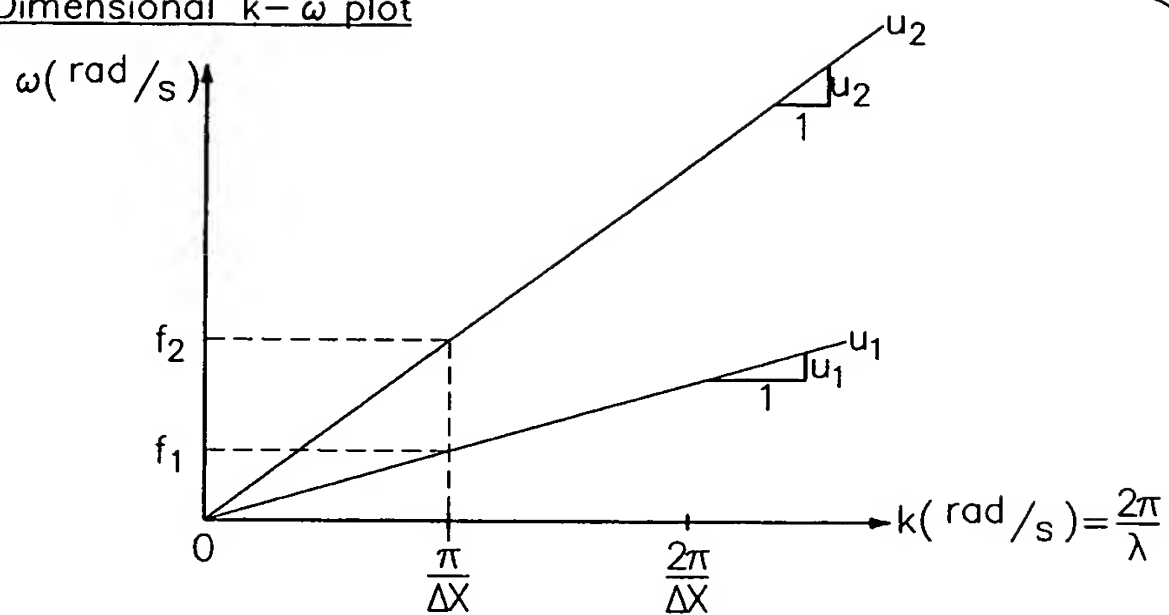
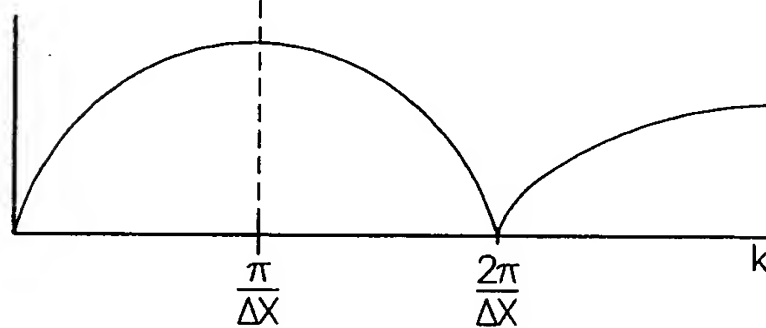
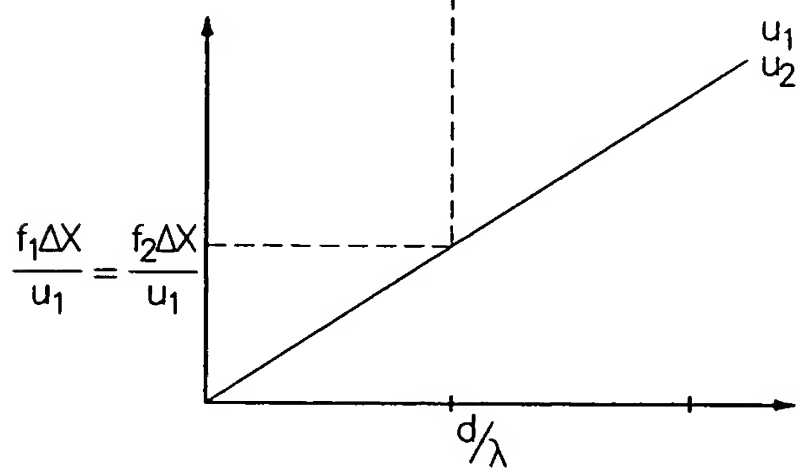
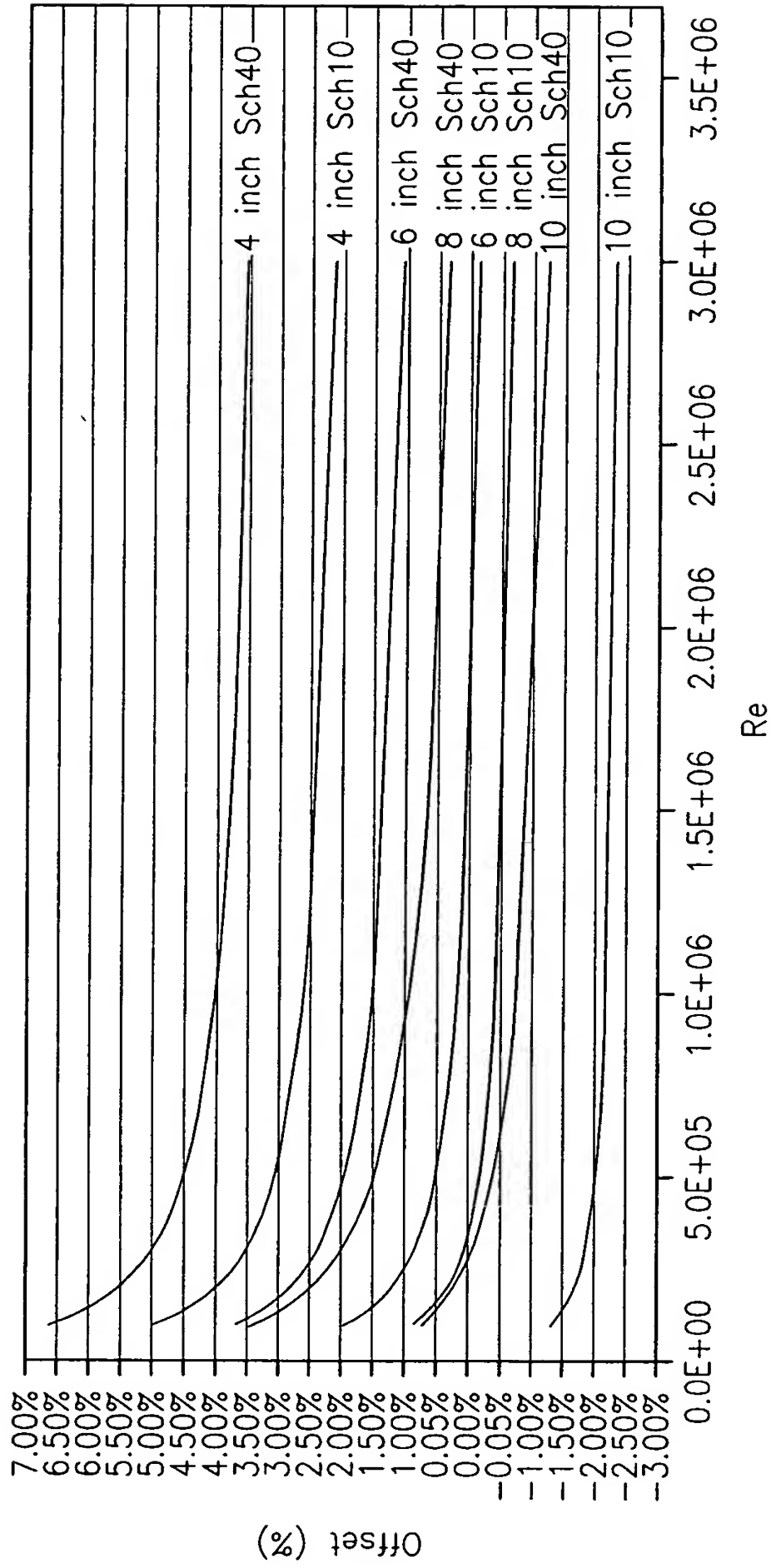


FIG. 7

Dimensional $k-\omega$ plot*FIG. 8(a)**FIG. 8(b)*Non-Dimensional $k-\omega$ plot*FIG. 8(c)**FIG. 8*

Family of Calibration Curves



Sch 10	ID	delX/id	ID	delX/id	C ₂	C ₁	C ₀	Sch 40	C ₂	C ₁	C ₀	Sch 10	C ₂	C ₁	C ₀	Sch 40	C ₂	C ₁	C ₀
4.2900	55.94%	4.1030	58.49%	0.50	0.50	11.00	12.00	0.0150	0.0280										
6.4000	37.50%	6.1040	39.32%	0.50	0.46	8.00	6.50	-0.0060	0.0040										
8.3300	28.81%	8.0700	29.74%	0.50	0.36	5.80	2.80	-0.0100	-0.0100										
10.4450	22.98%	10.1110	23.74%	0.50	0.20	4.00	0.40	-0.0257	-0.0330										

FIG. 9